V1.0

INTRODUCTION

The Pulse-Eight OneIP transceiver is an ultra-low latency, AV-over-IP solution capable of distributing UltraHD 4K HDMI 2.0 video (18Gbps), with support for HDR, over a 1Gbps Ethernet network.

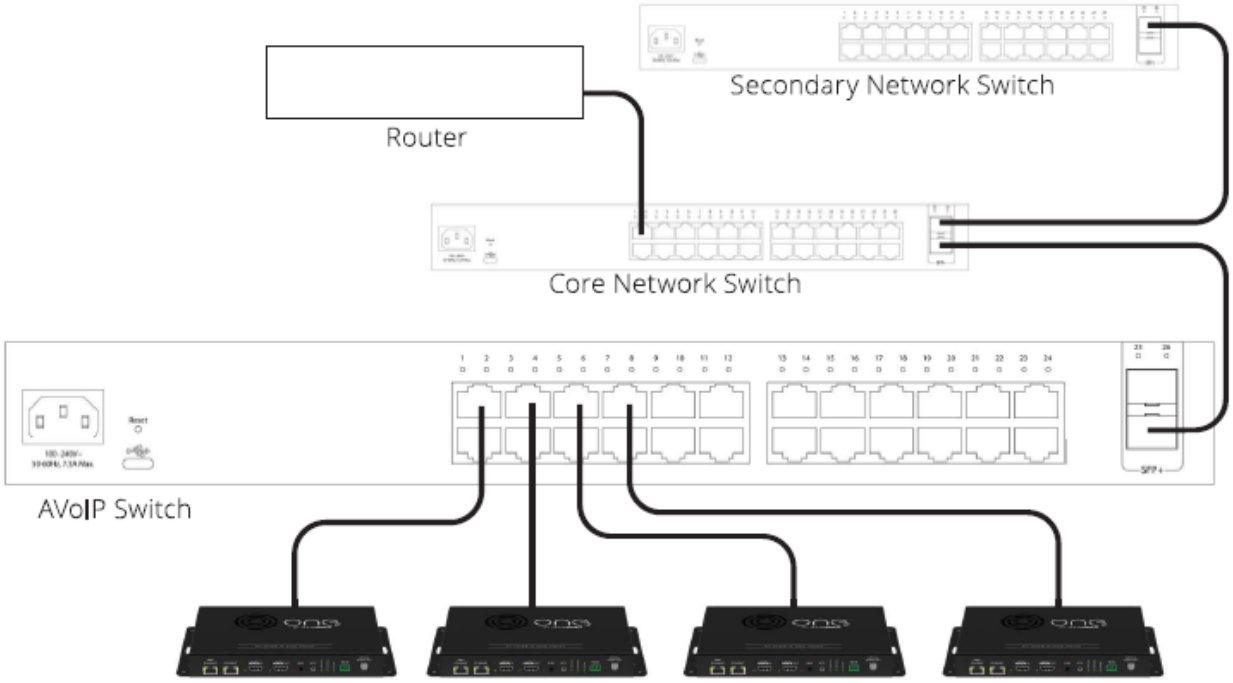
The following is a step-by-step tutorial for configuring Araknis-420 Switches for use with Pulse-Eight OneIP TRX units. Please follow the instructions below before connecting any OneIP devices to the switch.

SUPPORTED PRODUCTS

- Araknis-420

IMPORTANT NOTES!

Do **NOT** connect any OneIP devices to the switch before configuration is completed, doing so may cause the switch to run slow or crash due to multicast data flooding the network.

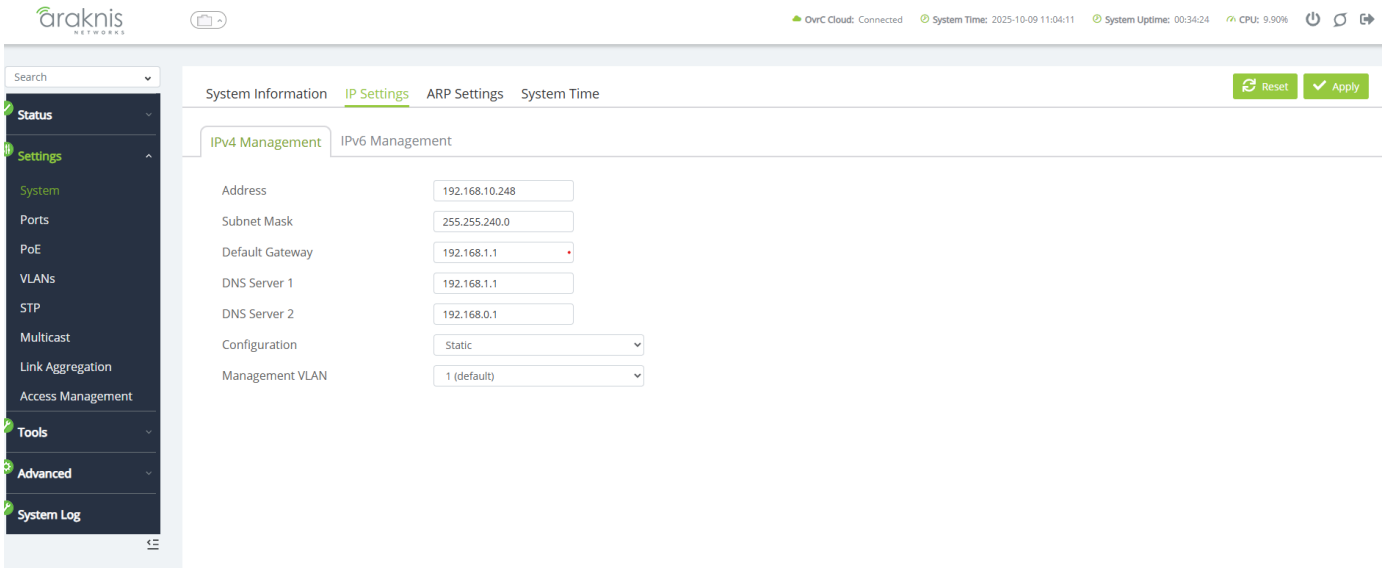


CORE SWITCH (OR SINGLE SWITCH) CONFIGURATION

Log in to the Araknis AN Switch web interface. The Araknis 210/310 switches are set to DHCP by default, therefore you will need to scan the network or check DHCP server to find the IP address; if no DHCP server is available the switch will default to 192.168.20.254.

1. Log in to the Web UI. The default credentials are araknis and araknis.
2. Create a new secure password and username.
3. Set the switch to a static IP or DHCP reserved from the DHCP server.

    a. Select the “Systems Tab” under “Settings.” Navigate to IP settings on the top tab bar: From here, you can change the IP settings of the switch.

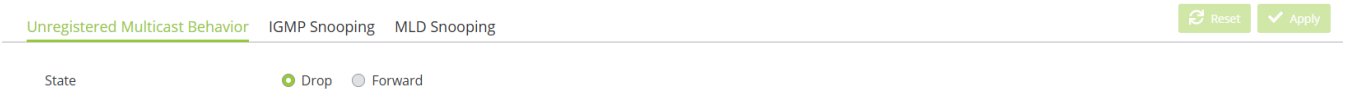


b. Click Apply on the top right of the screen to save the settings, the switch will now apply the new IP settings and be on the static or reserved address.

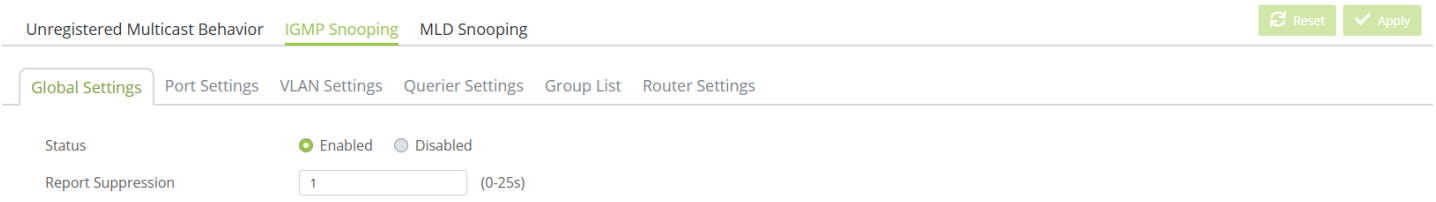
4. Log in to the Web UI using the new IP address, username, and password.

Select “Multicast” from the Settings Tab

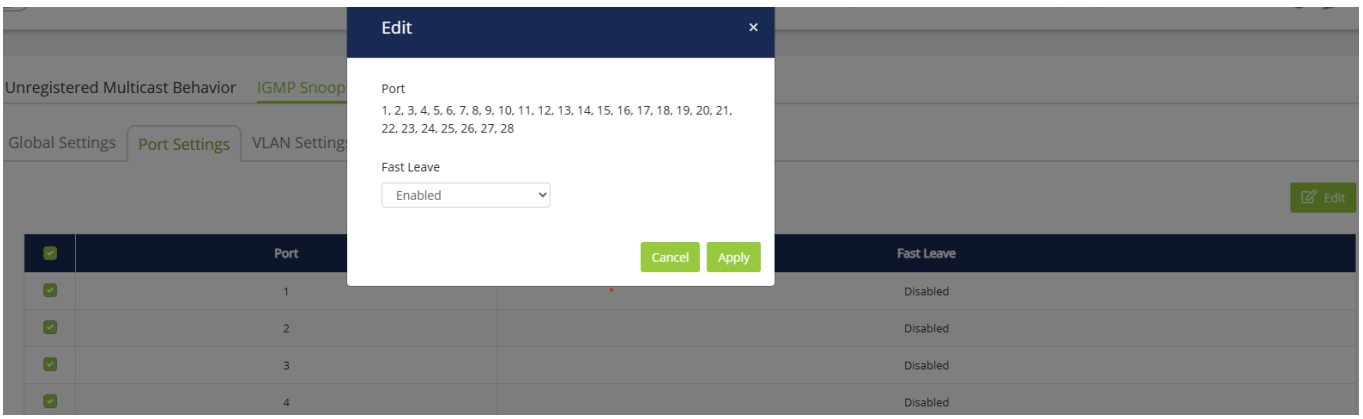
5. Under Unregistered Multicast Behavior set the state to “Drop”, then click apply on the top right



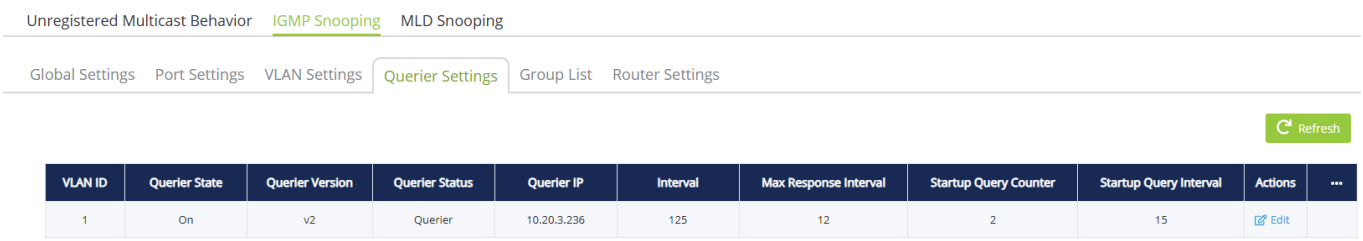
6. Click the IGMP Snooping tab at the top, then under Global Settings change the Status to enabled and set the Report Suppression to 1, then click apply on the top right



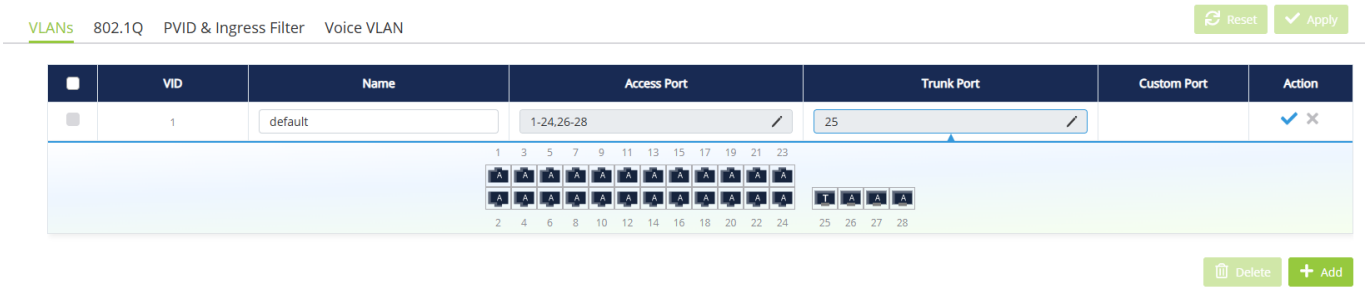
7. Click the Port Settings tab at the top, then ensure that all ports using OneIP have fast leave disabled, if you need to change this select all the the ports using OneIP, then click “Edit” Edit and toggle fast leave to disabled, then click apply on the top right



8. Click the Querier Settings subtab at the top, under actions on the table click Edit, toggle Querier State to on and click apply. Double check the Querier IP is the same as the Switch IP, then click apply on the top right.



9. Go to the VLANs Tab under Settings and ensure that any port connected to a switch using OneIP is set as a Trunk Port, to do this:
under the VLANs subtab click the Edit buttons under Action on the table, either type the port number under trunking port or select the trunk port from the diagram, then click apply on the top right



The switch is now configured for usage with OneIP, and the units can now be plugged into it.

MANUAL VERSION HISTORY

TBD